



RiMS Regulatory Information Management System

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Background

- In 1993, a comprehensive Site Survey was conducted.
- Data are collected and kept in 1-2-3, Excel, dBase, Fox Pro, Paradox, etc. formats.
- Tracking applications are Text / DOS-based.
- No integration
- Need better tools to carry out job assignments.
- Main Responsibility: Air Quality Compliance Program
- Start EIMS in early 1994.
- Officially named RIMS in early 1996.

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RiMS - Design Goal / Overview

- Classical Client / Server Application
- Modular Design [Object-Oriented Programming]
- Scalable to SQL Databases (multi-users)
- Bar-Code Scanner / Reader Capable
- Easy to Use and Maintain
- GOAL: Assist Environmental Personnel to quickly:
 - Archive relevant environmental data,
 - Access relevant environmental data, and
 - Obtain predefined and/or generate new, custom reports.

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RIMS - Features

- 32-Bit Windows-compliant Application
- Graphical User Interface
- Full Context-Sensitive Help.
- Dynamic Pick Lists with Lookup Capability
- Powerful & Intuitive Search Capability
- Reporting Engine with Export Capability
- Y2K Compliance

Accessibility
Security

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Air Quality Equipment Module

- Detailed Listing of Equipment – especially Permitted Equipment by:
 - Name, Make, Model, Serial Number, Property ID, etc.
 - Location - including Coordinates, Receptors, etc.
 - Users / Operators / Contacts Data
 - Types of Fuel Used (Emission Calculations)
 - Installed / Removed Dates & Operating Schedules
 - Costs – including Pollution Control Data, if applicable
 - Chemicals Used – including links to MSDS Module

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Air Quality Equipment Module

[Continued]

- Detailed Permit Application Data – including Permit Conditions, Fees, Compliance Plan, etc.
- Applicable Regulation, Compliance History & Status
- Equipment Photograph
- Bar-Code Scanner / Reader Capable
- Exempt Equipment – including references to applicable rules and regulations

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Air Quality Risk Assessment Module

[Work In Progress]

OBJECTIVE:

- Prepare a Screening Health Risk Assessment at Minimal Cost
 - New Source Review for Toxic Air Contaminants
 - Calculate Maximum Individual Cancer Risk (MICR) for each Permitted Equipment and/or Emission Source

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Chemical MSDS Module

- Detailed Listing of Chemical Products Used on Lab including information such as:
 - Product Name and Classification
 - Manufacturer Information & Contacts with Web Links
 - Chemical & Physical Properties – including VOC Data
 - Chemical Composition – including CAS No, %Weight
 - Health & Safety Data – including links to List of Lists
 - Storage & Handling Requirements – including NFPA
 - View & Print Hard Copies of MSDS

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Chemical Inventory Module

- Detailed Listing of Chemicals Procured Through the JPL On-Line Systems (JIT, Oracle, etc.)
 - Product Part Number, Description
 - Quantity with Unit of Measurement
 - Container Type / Size & Unit Conversion Factors
 - User / Contact Name, Location
 - Description of Usage / Process
 - Ordered & Received Dates
 - With Links to EQUIPMENT and MSDS Modules

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Regulated Chemical Search Module

- Search For a Regulated Chemical by the CAS Number or the Chemical Name – producing results with information such as:
 - MSDS ID Number (i.e., linked to the MSDS Module)
 - JPL Product Part Number
 - Detailed Product Procurement Data with a direct link to the CHEMICAL INVENTORY Module
 - Hazard Rating & Classification – Including RQ, TPQ, etc.

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Compliance Inspection Module

- Detailed Listing of Indoor Inspections, Conducted by EAO Personnel, of Laboratory Facilities / Areas – with emphasis on the following disciplines:
 - Air Quality Compliance
 - Hazardous Waste Management
 - Water Quality Compliance

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Outdoor Inspection Module

- Detailed Listing of Inspections, Conducted by EAO Personnel, of Outdoor Facilities / Areas – with emphasis on outdoor storage of:
 - Chemical Cabinets
 - Containers of Chemicals
 - Dumpsters
 - Recyclable Materials
 - Storm Drains

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Training Module

- Detailed Listing of Environmental Training Classes Conducted by EAO Personnel.
 - Class Description – Including Training Materials used
 - Training Date and Location
 - Detailed Listing of Attendants Information
 - Generate Sign-up Sheets
 - Print Certificates of Completion

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Hazardous Waste Disposal Module

- Detailed Listing of Generation and Disposal of Hazardous Wastes with information such as:
 - Users' Name and Location
 - Type of Waste Streams
 - Accumulation Date
 - Quantities
 - Disposal Date – Including Manifest details
- Bar-Code Scanner / Reader Capable

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Hazardous Waste Disposal Module

[Pending Development]

- Waste Characterization & Classification
(with links to the MSDS Module)
- Waste Label Generation
- Waste Manifest Generation
- TSDF Tracking & Review
- Waste Reports Generation

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Report Manager

- Produce Pre-defined Reports
- Generate New Custom Reports
- Export Reports to Other File Formats (such as Excel, HTML, Text, etc.) for Further Analyses

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Future Development Goal

- Web-based or enabled Application
- GIS-Driven Application to track:
 - Air Quality Equipment
 - Permits
 - Off-site Receptors
 - Chemical Storage (ODS, VOC, etc.)
 - Above and Underground Storage Tanks
 - Chemical Cabinets (for Large Containers)
 - Risk / Spill Management & Prevention Program

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Future Development Goal (Cont'd)

- Waste Satellite Storage Areas
 - 9-Month On-site Storage Limitation
- NEPA (Environmental Justice) Compliance
 - Wild Life & Endangered Species
 - Off-site Communities
- Water Quality
 - Storm Drains & Groundwater Wells - including Permits
 - Laboratory Analytical Data
- Use PDA to Collect Field Data

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